

ISPT1012.TXT
SEQUENCE LISTING

<110> Bennett, Clarence Frank
Freier, Suan M.
Dobie, Kenneth W.

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<151> 2003-06-17

<150> US 10/174,014
<151> 2002-06-17

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| | | | | | | |
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| Gly Val Ser Gly Val Asp Leu Tyr Arg Ser His Ile Pro Leu Ala Phe | | | | | | |
| gac ccc acc tcc ata ccc | cgc gcc atc cct ctg gac gca gcc gct gcc | 1610 | 1615 | 1620 | | 5070 |
| Asp Pro Thr Ser Ile Pro Arg Gly Ile Pro Leu Asp Ala Ala Ala | | | | | | |
| tac tac ctg ccc cga cac | ctg gcc ccc aac ccc acc tac ccg cac ctg | 1625 | 1630 | 1635 | | 5118 |
| Tyr Tyr Leu Pro Arg His Leu Ala Pro Asn Pro Thr Tyr Pro His Leu | | | | | | |
| tac cca ccc tac ctc atc | cgc gcc tac ccc gac acg gcg gcg ctg gag | 1640 | 1645 | 1650 | | 5166 |
| Tyr Pro Pro Tyr Leu Ile Arg Gly Tyr Pro Asp Thr Ala Ala Leu Glu | | | | | | |
| aac cgg cag acc atc atc | aat gac tac atc acc tcg cag cag atg cac | 1655 | 1660 | 1665 | 1670 | 5214 |
| Asn Arg Gln Thr Ile Ile Asn Asp Tyr Ile Thr Ser Gln Gln Met His | | | | | | |
| cac aac acg gcc acc gcc | atg gcc cag cga gct gat atg ctg agg ggc | 1675 | 1680 | 1685 | | 5262 |
| His Asn Thr Ala Thr Ala Met Ala Gln Arg Ala Asp Met Leu Arg Gly | | | | | | |
| ctc tcg ccc cgc gag tcc | tcg ctg gca ctc aac tac gct gcg ggt ccc | 1690 | 1695 | 1700 | | 5310 |
| Leu Ser Pro Arg Glu Ser Ser Leu Ala Leu Asn Tyr Ala Ala Gly Pro | | | | | | |
| cga gcc atc atc gac ctg | tcc caa gtg cca cac ctg cct gtg ctc gtg | 1705 | 1710 | 1715 | | 5358 |
| Arg Gly Ile Ile Asp Leu Ser Gln Val Pro His Leu Pro Val Leu Val | | | | | | |
| ccc ccg aca cca ggc acc | cca gcc acc gcc atg gac cgc ctt gcc tac | 1720 | 1725 | 1730 | | 5406 |
| Pro Pro Thr Pro Gly Thr Pro Ala Thr Ala Met Asp Arg Leu Ala Tyr | | | | | | |
| ctc ccc acc gcg ccc cag | ccc ttc agc agc cgc cac agc agc tcc cca | 1735 | 1740 | 1745 | 1750 | 5454 |
| Leu Pro Thr Ala Pro Gln Pro Phe Ser Ser Arg His Ser Ser Ser Pro | | | | | | |
| ctc tcc cca gga ggt cca | aca cac ttg aca aaa cca acc acc acg tcc | 1755 | 1760 | 1765 | | 5502 |

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| | | | | | | | | | | | | | | | | |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Leu | Ser | Pro | Gly | Gly | Pro | Thr | His | Leu | Thr | Lys | Pro | Thr | Thr | Thr | Ser | |
| | | | 1770 | | | | | 1775 | | | | | 1780 | | | |
| tcg | tcc | gag | cgg | gag | cga | gac | cgg | gat | cga | gag | cgg | gac | cgg | gat | cgg | 5550 |
| Ser | Ser | Glu | Arg | Glu | Arg | Asp | Arg | Asp | Arg | Glu | Arg | Asp | Arg | Asp | Arg | |
| | | 1785 | | | | | 1790 | | | | | 1795 | | | | |
| gag | cgg | gaa | aag | tcc | atc | ctc | acg | tcc | acc | acg | acg | gtg | gag | cac | gca | 5598 |
| Glu | Arg | Glu | Lys | Ser | Ile | Leu | Thr | Ser | Thr | Thr | Thr | Val | Glu | His | Ala | |
| | | 1800 | | | | | 1805 | | | | | 1810 | | | | |
| ccc | atc | tgg | aga | cct | ggt | aca | gag | cag | agc | agc | ggc | agc | agc | ggc | agc | 5646 |
| Pro | Ile | Trp | Arg | Pro | Gly | Thr | Glu | Gln | Ser | Ser | Gly | Ser | Ser | Gly | Ser | |
| 1815 | | | | | 1820 | | | | 1825 | | | | | | 1830 | |
| agc | ggc | ggg | ggt | ggg | ggc | agc | agc | agc | cgc | ccc | gcc | tcc | cac | tcc | cat | 5694 |
| Ser | Gly | Gly | Gly | Gly | Gly | Ser | Ser | Ser | Arg | Pro | Ala | Ser | His | Ser | His | |
| | | | | 1835 | | | | | 1840 | | | | | 1845 | | |
| gcc | cac | cag | cac | tcg | ccc | atc | tcc | cct | cgg | acc | cag | gat | gcc | ctc | cag | 5742 |
| Ala | His | Gln | His | Ser | Pro | Ile | Ser | Pro | Arg | Thr | Gln | Asp | Ala | Leu | Gln | |
| | | | 1850 | | | | | 1855 | | | | | 1860 | | | |
| cag | aga | ccc | agt | gtg | ctt | cac | aac | aca | ggc | atg | aag | ggt | atc | atc | acc | 5790 |
| Gln | Arg | Pro | Ser | Val | Leu | His | Asn | Thr | Gly | Met | Lys | Gly | Ile | Ile | Thr | |
| | | 1865 | | | | | 1870 | | | | | 1875 | | | | |
| gct | gtg | gag | ccc | agc | aag | ccc | acg | gtc | ctg | agg | tcc | acc | tcc | acc | tcc | 5838 |
| Ala | Val | Glu | Pro | Ser | Lys | Pro | Thr | Val | Leu | Arg | Ser | Thr | Ser | Thr | Ser | |
| | | 1880 | | | | | 1885 | | | | | 1890 | | | | |
| tca | ccc | ggt | cgc | cca | gct | gcc | aca | ttc | cca | cct | gcc | acc | cac | tgc | cca | 5886 |
| Ser | Pro | Val | Arg | Pro | Ala | Ala | Thr | Phe | Pro | Pro | Ala | Thr | His | Cys | Pro | |
| 1895 | | | | | 1900 | | | | 1905 | | | | | | 1910 | |
| ctg | ggc | ggc | acc | ctc | gat | ggg | gtc | tac | cct | acc | ctc | atg | gag | ccc | gtc | 5934 |
| Leu | Gly | Gly | Thr | Leu | Asp | Gly | Val | Tyr | Pro | Thr | Leu | Met | Glu | Pro | Val | |
| | | | | 1915 | | | | | 1920 | | | | | 1925 | | |
| ttg | ctg | ccc | aag | gag | gcc | ccc | cgg | gtc | gcc | cgg | cca | gag | cgg | ccc | cga | 5982 |
| Leu | Leu | Pro | Lys | Glu | Ala | Pro | Arg | Val | Ala | Arg | Pro | Glu | Arg | Pro | Arg | |
| | | 1930 | | | | | | 1935 | | | | 1940 | | | | |
| gca | gac | acc | ggc | cat | gcc | ttc | ctc | gcc | aag | ccc | cca | gcc | cgc | tcc | ggg | 6030 |
| Ala | Asp | Thr | Gly | His | Ala | Phe | Leu | Ala | Lys | Pro | Pro | Ala | Arg | Ser | Gly | |
| | | 1945 | | | | | 1950 | | | | | 1955 | | | | |
| ctg | gag | ccc | gcc | tcc | tcc | ccc | agc | aag | ggc | tcg | gag | ccc | cgg | ccc | cta | 6078 |
| Leu | Glu | Pro | Ala | Ser | Ser | Pro | Ser | Lys | Gly | Ser | Glu | Pro | Arg | Pro | Leu | |
| | | 1960 | | | | 1965 | | | | | 1970 | | | | | |
| gtg | cct | cct | gtc | tct | ggc | cac | gcc | acc | atc | gcc | cgc | acc | cct | gcg | aag | 6126 |
| Val | Pro | Pro | Val | Ser | Gly | His | Ala | Thr | Ile | Ala | Arg | Thr | Pro | Ala | Lys | |
| | | 1975 | | | 1980 | | | | 1985 | | | | | | 1990 | |
| aac | ctc | gca | cct | cac | gcc | agc | ccg | gac | ccg | gcg | cca | cct | gcc | gca | | 6174 |
| Asn | Leu | Ala | Pro | His | His | Ala | Ser | Pro | Asp | Pro | Pro | Ala | Pro | Pro | Ala | |
| | | | 1995 | | | | | 2000 | | | | | | 2005 | | |
| tcg | gcc | tcg | gac | ccg | cac | cgg | gaa | aag | act | caa | agt | aaa | ccc | ttt | tcc | 6222 |
| Ser | Ala | Ser | Asp | Pro | His | Arg | Glu | Lys | Thr | Gln | Ser | Lys | Pro | Phe | Ser | |
| | | | 2010 | | | | | 2015 | | | | | 2020 | | | |
| atc | cag | gaa | ctg | gaa | ctc | cgt | tct | ctg | ggt | tac | cac | ggc | agc | agc | tac | 6270 |
| Ile | Gln | Glu | Leu | Glu | Leu | Arg | Ser | Leu | Gly | Tyr | His | Gly | Ser | Ser | Tyr | |
| | | 2025 | | | | | 2030 | | | | | 2035 | | | | |
| agc | ccc | gaa | ggg | gtg | gag | ccc | gtc | agc | cct | gtg | agc | tca | ccc | agt | ctg | 6318 |
| Ser | Pro | Glu | Gly | Val | Glu | Pro | Val | Ser | Pro | Val | Ser | Ser | Pro | Ser | Leu | |
| | | 2040 | | | | 2045 | | | | 2050 | | | | | | |
| acc | cac | gac | aag | ggg | ctc | ccc | aag | cac | ctg | gaa | gag | ctc | gac | aag | agc | 6366 |
| Thr | His | Asp | Lys | Gly | Leu | Pro | Lys | His | Leu | Glu | Glu | Leu | Asp | Lys | Ser | |
| | | 2055 | | | 2060 | | | | 2065 | | | | | | 2070 | |
| cac | ctg | gag | ggg | gag | ctg | cgg | ccc | aag | cag | cca | ggc | ccc | gtg | aag | ctt | 6414 |
| His | Leu | Glu | Gly | Glu | Leu | Arg | Pro | Lys | Gln | Pro | Gly | Pro | Val | Lys | Leu | |
| | | | 2075 | | | | | | 2080 | | | | | 2085 | | |
| ggc | ggg | gag | gcc | gcc | cac | ctc | cca | cac | ctg | cgg | ccg | ctg | cct | gag | agc | 6462 |
| Gly | Gly | Glu | Ala | Ala | His | Leu | Pro | His | Leu | Arg | Pro | Leu | Pro | Glu | Ser | |
| | | 2090 | | | | | | 2095 | | | | 2100 | | | | |
| cag | ccc | tcg | tcc | agc | ccg | ctg | ctc | cag | acc | gcc | cca | ggg | gtc | aaa | ggt | 6510 |
| Gln | Pro | Ser | Ser | Ser | Pro | Leu | Leu | Gln | Thr | Ala | Pro | Gly | Val | Lys | Gly | |
| | | 2105 | | | | | 2110 | | | | | 2115 | | | | |
| cac | cag | cgg | gtg | gtc | acc | ctg | gcc | cag | cac | atc | agt | gag | gtc | atc | aca | 6558 |
| His | Gln | Arg | Val | Val | Thr | Leu | Ala | Gln | His | Ile | Ser | Glu | Val | Ile | Thr | |
| | | 2120 | | | | 2125 | | | | | 2130 | | | | | |

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| | |
|---|------|
| cag gac tac acc cgg cac cac cca cag cag ctc agc gca ccc ctg ccc | 6606 |
| Gln Asp Tyr Thr Arg His His Pro Gln Gln Leu Ser Ala Pro Leu Pro | |
| 2135 2140 2145 2150 | |
| gcc ccc ctc tac tcc ttc cct ggg gcc agc tgc ccc gtc ctg gac ctc | 6654 |
| Ala Pro Leu Tyr Ser Phe Pro Gly Ala Ser Cys Pro Val Leu Asp Leu | |
| 2155 2160 2165 | |
| cgc cgc cca ccc agt gac ctc tac ctc ccg ccc ccg gac cat ggt gcc | 6702 |
| Arg Arg Pro Pro Ser Asp Leu Tyr Leu Pro Pro Pro Asp His Gly Ala | |
| 2170 2175 2180 | |
| ccg gcc cgt ggc tcc ccc cac agc gaa ggg ggc aag agg tct cca gag | 6750 |
| Pro Ala Arg Gly Ser Pro His Ser Glu Gly Gly Lys Arg Ser Pro Glu | |
| 2185 2190 2195 | |
| cca aac aag acg tcg gtc ttg ggt ggt ggt gag gac ggt att gaa cct | 6798 |
| Pro Asn Lys Thr Ser Val Leu Gly Gly Gly Glu Asp Gly Ile Glu Pro | |
| 2200 2205 2210 | |
| gtg tcc cca ccg gag ggc atg acg gag cca ggg cac tcc cgg agt gct | 6846 |
| Val Ser Pro Pro Glu Gly Met Thr Glu Pro Gly His Ser Arg Ser Ala | |
| 2215 2220 2225 2230 | |
| gtg tac ccg ctg ctg tac cgg gat ggg gaa cag acg gag ccc agc agg | 6894 |
| Val Tyr Pro Leu Leu Tyr Arg Asp Gly Glu Gln Thr Glu Pro Ser Arg | |
| 2235 2240 2245 | |
| atg ggc tcc aag tct cca ggc aac acc agc cag ccg cca gcc ttc ttc | 6942 |
| Met Gly Ser Lys Ser Pro Gly Asn Thr Ser Gln Pro Pro Ala Phe Phe | |
| 2250 2255 2260 | |
| agc aag ctg acc gag agc aac tcc gcc atg gtc aag tcc aag aag caa | 6990 |
| Ser Lys Leu Thr Glu Ser Asn Ser Ala Met Val Lys Ser Lys Lys Gln | |
| 2265 2270 2275 | |
| gag atc aac aag aag ctg aac acc cac aac cgg aat gag cct gaa tac | 7038 |
| Glu Ile Asn Lys Lys Leu Asn Thr His Asn Arg Asn Glu Pro Glu Tyr | |
| 2280 2285 2290 | |
| aat atc agc cag cct ggg acg gag atc ttc aat atg ccc gcc atc acc | 7086 |
| Asn Ile Ser Gln Pro Gly Thr Glu Ile Phe Asn Met Pro Ala Ile Thr | |
| 2295 2300 2305 2310 | |
| gga aca ggc ctt atg acc tat aga agc cag gcg gtg cag gaa cat gcc | 7134 |
| Gly Thr Gly Leu Met Thr Tyr Arg Ser Gln Ala Val Gln Glu His Ala | |
| 2315 2320 2325 | |
| agc acc aac atg ggg ctg gag gcc ata att aga aag gca ctc atg ggt | 7182 |
| Ser Thr Asn Met Gly Leu Glu Ala Ile Arg Lys Ala Leu Met Gly | |
| 2330 2335 2340 | |
| aaa tat gac cag tgg gaa gag tcc ccg ccg ctc agc gcc aat gct ttt | 7230 |
| Lys Tyr Asp Gln Trp Glu Glu Ser Pro Pro Leu Ser Ala Asn Ala Phe | |
| 2345 2350 2355 | |
| aac cct ctg aat gcc agt gcc agc ctg ccc gct gct atg ccc ata acc | 7278 |
| Asn Pro Leu Asn Ala Ser Ala Ser Leu Pro Ala Ala Met Pro Ile Thr | |
| 2360 2365 2370 | |
| gct gct gac gga cgg agt gac cac aca ctc acc tgc cca ggt ggc ggc | 7326 |
| Ala Ala Asp Gly Arg Ser Asp His Thr Leu Thr Ser Pro Gly Gly Gly | |
| 2375 2380 2385 2390 | |
| ggg aag gcc aag gtc tct ggc aga ccc agc agc cga aaa gcc aag tcc | 7374 |
| Gly Lys Ala Lys Val Ser Gly Arg Pro Ser Ser Arg Lys Ala Lys Ser | |
| 2395 2400 2405 | |
| ccg gcc ccg ggc ctg gca tct ggg gac cgg cca ccc tct gtc tcc tca | 7422 |
| Pro Ala Pro Gly Leu Ala Ser Gly Asp Arg Pro Pro Ser Val Ser Ser | |
| 2410 2415 2420 | |
| gtg cac tcg gag gga gac tgc aac cgc cgg acg ccg ctc acc aac cgc | 7470 |
| Val His Ser Glu Gly Asp Cys Asn Arg Arg Thr Pro Leu Thr Asn Arg | |
| 2425 2430 2435 | |
| gtg tgg gag gac agg ccc tcg tcc gca ggt tcc acg cca ttc ccc tac | 7518 |
| Val Trp Glu Asp Arg Pro Ser Ser Ala Gly Ser Thr Pro Phe Pro Tyr | |
| 2440 2445 2450 | |
| aac ccc ctg atc atg cgg ctg cag gcg ggt gtc atg gct tcc cca ccc | 7566 |
| Asn Pro Leu Ile Met Arg Leu Gln Ala Gly Val Met Ala Ser Pro Pro | |
| 2455 2460 2465 2470 | |
| cca ccg ggc ctc ccc gcg ggc agc ggg ccc ctc gct ggc ccc cac cac | 7614 |
| Pro Pro Gly Leu Pro Ala Gly Ser Gly Pro Leu Ala Gly Pro His His | |
| 2475 2480 2485 | |
| gcc tgg gac gag gag ccc aag cca ctg ctc tgc tcg cag tac gag aca | 7662 |
| Ala Trp Asp Glu Glu Pro Lys Pro Leu Leu Cys Ser Gln Tyr Glu Thr | |

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2490 2495 2500
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 Leu Ser Asp Ser Glu

2505
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<222> (2)...(7555)

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ccc cgc tac ccg ccc cac agc ctt tcc tac cca gtg cag atc gcc cgg 97
Pro Arg Tyr Pro Pro His Ser Leu Ser Tyr Pro Val Gln Ile Ala Arg
      20          25          30
acg cac acg gac gtc ggg ctc ctg gag tac cag cac cac tcc cgc gac 145
Thr His Thr Asp Val Gly Leu Leu Glu Tyr Gln His His Ser Arg Asp
      35          40          45
tat gcc tcc cac ctg tcg ccg ggc tcc atc atc cag ccc cag cgg cgg 193
Tyr Ala Ser His Leu Ser Pro Gly Ser Ile Ile Gln Pro Gln Arg Arg
      50          55          60
agg ccc tcc ctg ctg tct gag ttc cag ccc ggg aat gaa cgg tcc cag 241
Arg Pro Ser Leu Leu Ser Glu Phe Gln Pro Gly Asn Glu Arg Ser Gln
      65          70          75          80
gag ctc cac ctg cgg cca gag tcc cac tca tac ctg ccc gag ctg ggg 289
Glu Leu His Leu Arg Pro Glu Ser His Ser Tyr Leu Pro Glu Leu Gly
      85          90          95
aag tca gag atg gag ttc att gaa agc aag cgc cct cgg cta gag ctg 337
Lys Ser Glu Met Glu Phe Ile Glu Ser Lys Arg Pro Arg Leu Glu Leu
      100          105          110
ctg cct gac ccc ctg ctg cga ccg tca ccc ctg ctg gcc acg ggc cag 385
Leu Pro Asp Pro Leu Leu Arg Pro Ser Pro Leu Leu Ala Thr Gly Gln
      115          120          125
cct gcg gga tct gaa gac ctc acc aag gac cgt agc ctg acg ggc aag 433

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| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Pro | Ala | Gly | Ser | Glu | Asp | Leu | Thr | Lys | Asp | Arg | Ser | Leu | Thr | Gly | Lys | |
| 130 | | | | | | 135 | | | | | 140 | | | | | |
| ctg | gaa | ccg | gtg | tct | ccc | ccc | agc | ccc | ccg | cac | act | gac | cct | gag | ctg | 481 |
| Leu | Glu | Pro | Val | Ser | Pro | Pro | Ser | Pro | Pro | His | Thr | Asp | Pro | Glu | Leu | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| gag | ctg | gtg | ccg | cca | cgg | ctg | tcc | aag | gag | gag | ctg | atc | cag | aac | atg | 529 |
| Glu | Leu | Val | Pro | Pro | Arg | Leu | Ser | Lys | Glu | Glu | Leu | Ile | Gln | Asn | Met | |
| | | | 165 | | | | | 170 | | | | | | 175 | | |
| gac | cgc | gtg | gac | cga | gag | atc | acc | atg | gta | gag | cag | cag | atc | tct | aag | 577 |
| Asp | Arg | Val | Asp | Arg | Glu | Ile | Thr | Met | Val | Glu | Gln | Gln | Ile | Ser | Lys | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| ctg | aag | aag | aag | cag | caa | cag | ctg | gag | gag | gag | gct | gcc | aag | ccg | ccc | 625 |
| Leu | Lys | Lys | Lys | Gln | Gln | Gln | Leu | Glu | Glu | Glu | Ala | Ala | Lys | Pro | Pro | |
| | | | 195 | | | | 200 | | | | | 205 | | | | |
| gag | cct | gag | aag | ccc | gtg | tca | ccg | ccg | ccc | atc | gag | tcg | aag | cac | cgc | 673 |
| Glu | Pro | Glu | Lys | Pro | Val | Ser | Pro | Pro | Pro | Ile | Glu | Ser | Lys | His | Arg | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| agc | ctg | gtg | cag | atc | atc | tac | gac | gag | aac | cgg | aag | aag | gct | gaa | gct | 721 |
| Ser | Leu | Val | Gln | Ile | Ile | Tyr | Asp | Glu | Asn | Arg | Lys | Lys | Ala | Glu | Ala | |
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| gca | cat | cgg | att | ctg | gaa | ggc | ctg | ggg | ccc | cag | gtg | gag | ctg | ccg | ctg | 769 |
| Ala | His | Arg | Ile | Leu | Glu | Gly | Leu | Gly | Pro | Gln | Val | Glu | Leu | Pro | Leu | |
| | | | | 245 | | | | 250 | | | | | | 255 | | |
| tac | aac | cag | ccc | tcc | gac | acc | cgg | cag | tat | cat | gag | aac | atc | aaa | ata | 817 |
| Tyr | Asn | Gln | Pro | Ser | Asp | Thr | Arg | Gln | Tyr | His | Glu | Asn | Ile | Lys | Ile | |
| | | | 260 | | | | | 265 | | | | | 270 | | | |
| aac | cag | gcg | atg | cgg | aag | aag | cta | atc | ttg | tac | ttc | aag | agg | agg | aat | 865 |
| Asn | Gln | Ala | Met | Arg | Lys | Lys | Leu | Ile | Leu | Tyr | Phe | Lys | Arg | Arg | Asn | |
| | | | 275 | | | | 280 | | | | | 285 | | | | |
| cac | gct | cgg | aaa | caa | tgg | aag | cag | aag | ttc | tgc | cag | cgc | tat | gac | cag | 913 |
| His | Ala | Arg | Lys | Gln | Trp | Lys | Gln | Lys | Phe | Cys | Gln | Arg | Tyr | Asp | Gln | |
| | 290 | | | | | 295 | | | | | 300 | | | | | |
| ctc | atg | gag | gcc | ttg | gaa | aaa | aag | gtg | gag | cgc | atc | gaa | aac | aac | ccg | 961 |
| Leu | Met | Glu | Ala | Leu | Glu | Lys | Lys | Val | Glu | Arg | Ile | Glu | Asn | Asn | Pro | |
| | 305 | | | | 310 | | | | | 315 | | | | | 320 | |
| cgc | cgg | cgg | gcc | aag | gag | agc | aag | gtg | cgc | gag | tac | tac | gaa | aag | cag | 1009 |
| Arg | Arg | Arg | Ala | Lys | Glu | Ser | Lys | Val | Arg | Glu | Tyr | Tyr | Glu | Lys | Gln | |
| | | | | 325 | | | | | 330 | | | | | 335 | | |
| ttc | cct | gag | atc | cgc | aag | cag | cgc | gag | ctg | cag | gag | cgc | atg | cag | agc | 1057 |
| Phe | Pro | Glu | Ile | Arg | Lys | Gln | Arg | Glu | Leu | Gln | Glu | Arg | Met | Gln | Ser | |
| | | | 340 | | | | | 345 | | | | | 350 | | | |
| agg | gtg | ggc | cag | cgg | ggc | agt | ggg | ctg | tcc | atg | tcg | gcc | gcc | cgc | agc | 1105 |
| Arg | Val | Gly | Gln | Arg | Gly | Ser | Gly | Leu | Ser | Met | Ser | Ala | Ala | Arg | Ser | |
| | | 355 | | | | | 360 | | | | | 365 | | | | |
| gag | cac | gag | gtg | tca | gag | atc | atc | gat | ggc | ctc | tca | gag | cag | gag | aac | 1153 |
| Glu | His | Glu | Val | Ser | Glu | Ile | Ile | Asp | Gly | Leu | Ser | Glu | Gln | Glu | Asn | |
| | | | 370 | | | 375 | | | | | 380 | | | | | |
| ctg | gag | aag | cag | atg | cgc | cag | ctg | gcc | gtg | atc | ccg | ccc | atg | ctg | tac | 1201 |
| Leu | Glu | Lys | Gln | Met | Arg | Gln | Leu | Ala | Val | Ile | Pro | Pro | Met | Leu | Tyr | |
| | | | | 385 | | 390 | | | | 395 | | | | | 400 | |
| gac | gct | gac | cag | cag | cgc | atc | aag | ttc | atc | aac | atg | aac | ggg | ctt | atg | 1249 |
| Asp | Ala | Asp | Gln | Gln | Arg | Ile | Lys | Phe | Ile | Asn | Met | Asn | Gly | Leu | Met | |
| | | | | 405 | | | | | 410 | | | | | 415 | | |
| gcc | gac | ccc | atg | aag | gtg | tac | aaa | gac | cgc | cag | gtc | atg | aac | atg | tgg | 1297 |
| Ala | Asp | Pro | Met | Lys | Val | Tyr | Lys | Asp | Arg | Gln | Val | Met | Asn | Met | Trp | |
| | | | 420 | | | | | 425 | | | | | 430 | | | |
| agt | gag | cag | gag | aag | gag | acc | ttc | cgg | gag | aag | ttc | atg | cag | cat | ccc | 1345 |
| Ser | Glu | Gln | Glu | Lys | Glu | Thr | Phe | Arg | Glu | Lys | Phe | Met | Gln | His | Pro | |
| | | | 435 | | | | 440 | | | | | 445 | | | | |
| aag | aac | ttt | ggc | ctg | atc | gca | tca | ttc | ctg | gag | agg | aag | aca | gtg | gct | 1393 |
| Lys | Asn | Phe | Gly | Leu | Ile | Ala | Ser | Phe | Leu | Glu | Arg | Lys | Thr | Val | Ala | |
| | | | 450 | | | 455 | | | | | 460 | | | | | |
| gag | tgc | gtc | ctc | tat | tac | tac | ctg | act | aag | aag | aat | gag | aac | tat | aag | 1441 |
| Glu | Cys | Val | Leu | Tyr | Tyr | Tyr | Leu | Thr | Lys | Lys | Asn | Glu | Asn | Tyr | Lys | |
| | | | | 465 | | 470 | | | | 475 | | | | | 480 | |
| agc | ctg | gtg | aga | cgg | agc | tat | cgg | cgc | cgc | ggc | aag | agc | cag | cag | caa | 1489 |
| Ser | Leu | Val | Arg | Arg | Ser | Tyr | Arg | Arg | Arg | Gly | Lys | Ser | Gln | Gln | Gln | |
| | | | | 485 | | | | | 490 | | | | | 495 | | |

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| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| caa | cag | cag | cag | cag | cag | cag | cag | cag | cag | cag | cag | cag | ccc | atg | 1537 |
| Gln | Gln | Gln | Gln | Gln | Gln | Gln | Gln | Gln | Gln | Gln | Gln | Gln | Pro | Met | |
| | | | 500 | | | | | | | | | 510 | | | |
| ccc | cgc | agc | agc | cag | gag | gag | aaa | gat | gag | aag | gag | aag | gaa | aag | gag |
| Pro | Arg | Ser | Ser | Gln | Glu | Glu | Lys | Asp | Glu | Lys | Glu | Lys | Glu | Lys | Glu |
| | | 515 | | | | | 520 | | | | | 525 | | | |
| gcg | gag | aag | gag | gag | gag | aag | ccg | gag | gtg | gag | aac | gac | aag | gaa | gac |
| Ala | Glu | Lys | Glu | Glu | Glu | Lys | Pro | Glu | Val | Glu | Asn | Asp | Lys | Glu | Asp |
| | | 530 | | | | 535 | | | | | 540 | | | | |
| ctc | ctc | aag | gag | aag | aca | gac | acc | tca | ggg | gag | gac | aac | gac | gag | |
| Leu | Leu | Lys | Glu | Lys | Thr | Asp | Asp | Thr | Ser | Gly | Glu | Asp | Asn | Asp | Glu |
| | | | | | 550 | | | | | 555 | | | | | 560 |
| aag | gag | gct | gtg | gcc | tcc | aaa | ggc | cgc | aaa | act | gcc | aac | agc | cag | gga |
| Lys | Glu | Ala | Val | Ala | Ser | Lys | Gly | Arg | Lys | Thr | Ala | Asn | Ser | Gln | Gly |
| | | | | 565 | | | | | | 570 | | | | 575 | |
| aga | cgc | aaa | ggc | cgc | atc | acc | cgc | tca | atg | gct | aat | gag | gcc | aac | agc |
| Arg | Arg | Lys | Gly | Arg | Ile | Thr | Arg | Ser | Met | Ala | Asn | Glu | Ala | Asn | Ser |
| | | | 580 | | | | | 585 | | | | | 590 | | |
| gag | gag | gcc | atc | acc | ccc | cag | cag | agc | gcc | gag | ctg | gcc | tcc | atg | gag |
| Glu | Glu | Ala | Ile | Thr | Pro | Gln | Gln | Ser | Ala | Glu | Leu | Ala | Ser | Met | Glu |
| | | 595 | | | | 600 | | | | | | 605 | | | |
| ctg | aat | gag | agt | tct | cgc | tgg | aca | gaa | gaa | gaa | atg | gaa | aca | gcc | aag |
| Leu | Asn | Glu | Ser | Ser | Arg | Trp | Thr | Glu | Glu | Glu | Met | Glu | Thr | Ala | Lys |
| | | 610 | | | | 615 | | | | | 620 | | | | |
| aaa | ggt | ctc | ctg | gaa | cac | ggc | cgc | aac | tgg | tcg | gcc | atc | gcc | cgg | atg |
| Lys | Gly | Leu | Leu | Glu | His | Gly | Arg | Asn | Trp | Ser | Ala | Ile | Ala | Arg | Met |
| | | 625 | | | 630 | | | | | 635 | | | | | 640 |
| gtg | ggc | tcc | aag | act | gtg | tcg | cag | tgt | aag | aac | ttc | tac | ttc | aac | tac |
| Val | Gly | Ser | Lys | Thr | Val | Ser | Gln | Cys | Lys | Asn | Phe | Tyr | Phe | Asn | Tyr |
| | | | | 645 | | | | | 650 | | | | | 655 | |
| aag | aag | agg | cag | aac | ctc | gat | gag | atc | ttg | cag | cag | cac | aag | ctg | aag |
| Lys | Lys | Arg | Gln | Asn | Leu | Asp | Glu | Ile | Leu | Gln | Gln | His | Lys | Leu | Lys |
| | | | 660 | | | | | 665 | | | | | 670 | | |
| atg | gag | aag | gag | agg | aac | gcg | cgg | agg | aag | aag | aag | aaa | gcg | ccg | gcg |
| Met | Glu | Lys | Glu | Arg | Asn | Ala | Arg | Arg | Lys | Lys | Lys | Lys | Ala | Pro | Ala |
| | | 675 | | | | 680 | | | | | | 685 | | | |
| gcg | gcc | agc | gag | gag | gct | gca | ttc | ccg | ccc | gtg | gtg | gat | gag | gag | |
| Ala | Ala | | Glu | Glu | Ala | Ala | Phe | Pro | Pro | Val | Val | Glu | Asp | Glu | |
| | | 690 | | | | 695 | | | | 700 | | | | | |
| atg | gag | gcg | tcg | ggc | gtg | agc | gga | aat | gag | gag | gag | atg | gtg | gag | gag |
| Met | Glu | Ala | Ser | Gly | Val | Ser | Gly | Asn | Glu | Glu | Glu | Met | Val | Glu | Glu |
| | | 705 | | | 710 | | | | | 715 | | | | | 720 |
| gct | gaa | gcc | tta | cat | gcc | tct | ggg | aat | gag | gtg | ccc | aga | ggg | gaa | tgc |
| Ala | Glu | Ala | Leu | His | Ala | Ser | Gly | Asn | Glu | Val | Pro | Arg | Gly | Glu | Cys |
| | | | 725 | | | | | | 730 | | | | 735 | | |
| agt | ggc | cca | gcc | act | gtc | aac | aac | agc | tca | gac | acc | gag | agc | atc | ccc |
| Ser | Gly | Pro | Ala | Thr | Val | Asn | Asn | Ser | Ser | Asp | Thr | Glu | Ser | Ile | Pro |
| | | | 740 | | | | | 745 | | | | | 750 | | |
| tct | cct | cac | act | gag | gcc | gcc | aag | gac | aca | ggg | cag | aat | ggg | ccc | aag |
| Ser | Pro | His | Thr | Glu | Ala | Ala | Lys | Asp | Thr | Gly | Gln | Asn | Gly | Pro | Lys |
| | | 755 | | | | | 760 | | | | | 765 | | | |
| ccc | cca | gcc | acc | ctg | ggc | gcc | gac | ggg | cca | ccc | cca | ggc | cca | ccc | acc |
| Pro | Pro | Ala | Thr | Leu | Gly | Ala | Asp | Gly | Pro | Pro | Pro | Gly | Pro | Pro | Thr |
| | | 770 | | | | 775 | | | | | 780 | | | | |
| cca | cca | cgg | agg | aca | tcc | cgg | gcc | ccc | att | gag | ccc | acc | ccg | gcc | tct |
| Pro | Pro | Arg | Arg | Thr | Ser | Arg | Ala | Pro | Ile | Glu | Pro | Thr | Pro | Ala | Ser |
| | | 785 | | | 790 | | | | | 795 | | | | | 800 |
| gaa | gcc | acc | gga | gcc | cct | acg | ccc | cca | cca | gca | ccc | cca | tcg | ccc | tct |
| Glu | Ala | Thr | Gly | Ala | Pro | Thr | Pro | Pro | Pro | Ala | Pro | Pro | Ser | Pro | Ser |
| | | | | 805 | | | | 810 | | | | | | 815 | |
| gca | cct | cct | cct | gtg | gtc | ccc | aag | gag | gag | aag | gag | gag | gag | acc | gca |
| Ala | Pro | Pro | Pro | Val | Val | Pro | Lys | Glu | Glu | Lys | Glu | Glu | Glu | Thr | Ala |
| | | | 820 | | | | | 825 | | | | 830 | | | |
| gca | gcg | ccc | cca | gtg | gag | gag | ggg | gag | gag | cag | aag | ccc | ccc | gcg | gct |
| Ala | Ala | Pro | Pro | Val | Glu | Glu | Gly | Glu | Glu | Gln | Lys | Pro | Pro | Ala | Ala |
| | | 835 | | | | | 840 | | | | | 845 | | | |
| gag | gag | ctg | gca | gtg | gac | aca | ggg | aag | gcc | gag | gag | ccc | gtc | aag | agc |
| Glu | Glu | Leu | Ala | Val | Asp | Thr | Gly | Lys | Ala | Glu | Glu | Pro | Val | Lys | Ser |

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| | | | | |
|---|---|------|---|------|
| 850 | gag tgc acg gag gaa gcc | 855 | gag gag ggg ccg gcc aag ggc aag gac gcg | 2641 |
| Glu Cys Thr Glu Glu Ala | Glu Glu Glu Glu Gly Pro Ala Lys Gly Lys Asp Ala | 860 | | |
| 865 | gag gcc gct gag gcc | 870 | gag gag ggg ccg gcc aag ggc aag gac gcg | |
| Glu Ala Ala Glu Glu Ala Thr | gag gcc gag ggg ccg ctc aag gca gag aag aag | 875 | | 2689 |
| | | 885 | gag ggc ggg agc ggc agg gcc acc act gcc aag agc tcg ggc gcc ccc | |
| gag ggc ggg agc ggc agg gcc acc act gcc aag agc tcg ggc gcc ccc | | 890 | | 2737 |
| Glu Gly Gly Ser Gly Arg Ala Thr Thr Ala Lys Ser Ser Gly Ala Pro | | 900 | | |
| 905 | cag gac agc gac tcc agt gct acc tgc agt gca gac gag gtg gat gag | 910 | | 2785 |
| Gln Asp Ser Asp Ser Ser Ala Thr Cys Ser Ala Asp Glu Val Asp Glu | | 915 | | |
| 920 | gcc gag ggc ggc gac aag aac cgg ctg ctg tcc cca agg ccc agc ctc | 925 | | 2833 |
| gag ggc ggc ggc gac aag aac cgg ctg ctg tcc cca agg ccc agc ctc | | 930 | | |
| Ala Glu Gly Gly Asp Lys Asn Arg Leu Leu Ser Pro Arg Pro Ser Leu | | 935 | | |
| 940 | ctc acc ccg act ggc gac ccc cgg gcc aat gcc tca ccc cag aag cca | 945 | | 2881 |
| Leu Thr Pro Thr Gly Asp Pro Arg Ala Asn Ala Ser Pro Gln Lys Pro | | 950 | | |
| 955 | ctg gac ctg aag cag ctg aag cag cga gcg gct gcc atc ccc ccc atc | 960 | | 2929 |
| Leu Asp Leu Lys Gln Leu Lys Gln Arg Ala Ala Ala Ile Pro Pro Ile | | 965 | | |
| 970 | cag gtc acc aaa gtc cat gag ccc ccc cgg gag gac gca gct ccc acc | 975 | | 2977 |
| Gln Val Thr Lys Val His Glu Pro Pro Arg Glu Asp Ala Ala Pro Thr | | 980 | | |
| 985 | aag cca gct ccc cca gcc cca ccg cca ccg caa aac ctg cag ccg gag | 990 | | 3025 |
| Lys Pro Ala Pro Pro Ala Pro Pro Pro Pro Gln Asn Leu Gln Pro Glu | | 995 | | |
| 1000 | agc gac gcc cct cag cag cct ggc agc agc ccc cgg ggc aag agc agg | 1005 | | 3073 |
| Ser Asp Ala Pro Gln Gln Pro Gly Ser Ser Pro Arg Gly Lys Ser Arg | | 1010 | | |
| 1015 | agc ccg gca ccc ccc gcc gac aag gag gcc ttc gca gcc gag gcc cag | 1020 | | 3121 |
| Ser Pro Ala Pro Pro Ala Asp Lys Glu Ala Phe Ala Ala Glu Ala Gln | | 1025 | | |
| 1030 | aag ctg cct ggg gac ccc cct tgc tgg act tcc ggc ctg ccc ttc ccc | 1035 | | 3169 |
| Lys Leu Pro Gly Asp Pro Pro Cys Trp Thr Ser Gly Leu Pro Phe Pro | | 1040 | | |
| 1045 | gtg ccc ccc cgt gag gtg atc aag gcc tcc ccg cat gcc ccg gac ccc | 1050 | | 3217 |
| Val Pro Pro Arg Glu Val Ile Lys Ala Ser Pro His Ala Pro Asp Pro | | 1055 | | |
| 1060 | tca gcc ttc tcc tac gct cca cct ggt cac cca ctg ccc ctg ggc ctc | 1065 | | 3265 |
| Ser Ala Phe Ser Tyr Ala Pro Pro Gly His Pro Leu Pro Leu Gly Leu | | 1070 | | |
| 1075 | cat gac act gcc cgg ccc gtc ctg ccg cgc cca ccc acc atc tcc aac | 1080 | | 3313 |
| His Asp Thr Ala Arg Pro Val Leu Pro Arg Pro Pro Thr Ile Ser Asn | | 1085 | | |
| 1090 | ccg cct ccc ctc atc tcc tct gcc aag cac ccc agc gtc ctc gag agg | 1095 | | 3361 |
| Pro Pro Pro Leu Ile Ser Ser Ala Lys His Pro Ser Val Leu Glu Arg | | 1100 | | |
| 1105 | caa ata ggt gcc atc tcc caa gga atg tgc gtc cag ctc cac gtc ccg | 1110 | | 3409 |
| Gln Ile Gly Ala Ile Ser Gln Gly Met Ser Val Gln Leu His Val Pro | | 1115 | | |
| 1120 | tac tca gag cat gcc aag gcc ccg gtg ggc cct gtc acc atg ggg ctg | 1125 | | 3457 |
| Tyr Ser Glu His Ala Lys Ala Pro Val Gly Pro Val Thr Met Gly Leu | | 1130 | | |
| 1135 | ccc ctg ccc atg gac ccc aaa aag ctg gca ccc ttc agc gga gtg aag | 1140 | | 3505 |
| Pro Leu Pro Met Asp Pro Lys Lys Leu Ala Pro Phe Ser Gly Val Lys | | 1145 | | |
| 1150 | cag gag cag ctg tcc cca cgg ggc cag gct ggg cca ccg gag agc ctg | 1155 | | 3553 |
| Gln Glu Gln Leu Ser Pro Arg Gly Gln Ala Gly Pro Pro Glu Ser Leu | | 1160 | | |
| 1165 | ggg gtg ccc aca gcc cag gag gcg tcc gtg ctg aga ggg aca gct ctg | 1170 | | 3601 |
| Gly Val Pro Thr Ala Gln Glu Ala Ser Val Leu Arg Gly Thr Ala Leu | | 1175 | | |
| 1180 | ggc tca gtt ccg ggc gga agc atc acc aaa ggc att ccc agc aca cgg | 1185 | | 3649 |
| Gly Ser Val Pro Gly Gly Ser Ile Thr Lys Gly Ile Pro Ser Thr Arg | | 1190 | | |
| 1195 | gtg ccc tcg gac agc gcc atc aca tac cgc ggc tcc atc acc cac ggc | 1200 | | 3697 |
| | | 1205 | | |
| | | 1210 | | |
| | | 1215 | | |

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|-----|-----|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| Val | Pro | Ser | Asp | Ser | Ala | Ile | Thr | Tyr | Arg | Gly | Ser | Ile | Thr | His | Gly | |
| | | | 1220 | | | | | 1225 | | | | 1230 | | | | |
| acg | cca | gct | gac | gtc | ctg | tac | aag | ggc | acc | atc | acc | agg | atc | atc | ggc | 3745 |
| Thr | Pro | Ala | Asp | Val | Leu | Tyr | Lys | Gly | Thr | Ile | Thr | Arg | Ile | Ile | Gly | |
| | | 1235 | | | | | 1240 | | | | | 1245 | | | | |
| gag | gac | agc | ccg | agt | cgc | ttg | gac | cgc | ggc | cgg | gag | gac | agc | ctg | ccc | 3793 |
| Glu | Asp | Ser | Pro | Ser | Arg | Leu | Asp | Arg | Gly | Arg | Glu | Asp | Ser | Leu | Pro | |
| | | 1250 | | | | 1255 | | | | | 1260 | | | | | |
| aag | ggc | cac | gtc | atc | tac | gaa | ggc | aag | aag | ggc | cac | gtc | ttg | tcc | tat | 3841 |
| Lys | Gly | His | Val | Ile | Tyr | Glu | Gly | Lys | Lys | Gly | His | Val | Leu | Ser | Tyr | |
| | | 1265 | | | 1270 | | | | | 1275 | | | | | 1280 | |
| gag | ggt | ggc | atg | tct | gtg | acc | cag | tgc | tcc | aag | gag | gac | ggc | aga | agc | 3889 |
| Glu | Gly | Gly | Met | Ser | Val | Thr | Gln | Cys | Ser | Lys | Glu | Asp | Gly | Arg | Ser | |
| | | | 1285 | | | | | | 1290 | | | | | 1295 | | |
| agc | tca | gga | ccc | ccc | cat | gag | acg | gcc | gcc | ccc | aag | cgc | acc | tat | gac | 3937 |
| Ser | Ser | Gly | Pro | Pro | His | Glu | Thr | Ala | Ala | Pro | Lys | Arg | Thr | Tyr | Asp | |
| | | 1300 | | | | | | 1305 | | | | | 1310 | | | |
| atg | atg | gag | ggc | cgc | gtg | ggc | aga | gcc | atc | tcc | tca | gcc | agc | atc | gaa | 3985 |
| Met | Met | Glu | Gly | Arg | Val | Gly | Arg | Ala | Ile | Ser | Ser | Ala | Ser | Ile | Glu | |
| | | 1315 | | | | | | 1320 | | | | 1325 | | | | |
| ggt | ctc | atg | ggc | cgt | gcc | atc | ccg | ccg | gag | cga | cac | agc | ccc | cac | cac | 4033 |
| Gly | Leu | Met | Gly | Arg | Ala | Ile | Pro | Pro | Glu | Arg | His | Ser | Pro | His | His | |
| | | 1330 | | | | 1335 | | | | | 1340 | | | | | |
| ctc | aaa | gag | cag | cac | cac | atc | cgc | ggg | tcc | atc | aca | caa | ggg | atc | cct | 4081 |
| Leu | Lys | Glu | Gln | His | His | Ile | Arg | Gly | Ser | Ile | Thr | Gln | Gly | Ile | Pro | |
| | | 1345 | | | 1350 | | | | 1355 | | | | | | 1360 | |
| cgg | tcc | tac | gtg | gag | gca | cag | gag | gac | tac | ctg | cgt | cgg | gag | gcc | aag | 4129 |
| Arg | Ser | Tyr | Val | Glu | Ala | Gln | Glu | Asp | Tyr | Leu | Arg | Arg | Glu | Ala | Lys | |
| | | | 1365 | | | | | 1370 | | | | | | 1375 | | |
| ctc | cta | aag | cgg | gag | ggc | acg | cct | ccg | ccc | cca | ccg | ccc | tca | cgg | gac | 4177 |
| Leu | Leu | Lys | Arg | Glu | Gly | Thr | Pro | Pro | Pro | Pro | Pro | Pro | Ser | Arg | Asp | |
| | | | 1380 | | | | | 1385 | | | | | 1390 | | | |
| ctg | acc | gag | gcc | tac | aag | acg | cag | gcc | ctg | ggc | ccc | ctg | aag | ctg | aag | 4225 |
| Leu | Thr | Glu | Ala | Tyr | Lys | Thr | Gln | Ala | Leu | Gly | Pro | Leu | Lys | Leu | Lys | |
| | | 1395 | | | | | 1400 | | | | 1405 | | | | | |
| ccg | gcc | cat | gag | ggc | ctg | gtg | gcc | acg | gtg | aag | gag | gag | ggc | cgc | tcc | 4273 |
| Pro | Ala | His | Glu | Gly | Leu | Val | Ala | Thr | Val | Lys | Glu | Ala | Gly | Arg | Ser | |
| | | 1410 | | | | 1415 | | | | | 1420 | | | | | |
| atc | cat | gag | atc | ccg | cgc | gag | gag | ctg | cgg | cac | acg | ccc | gag | ctg | ccc | 4321 |
| Ile | His | Glu | Ile | Pro | Arg | Glu | Glu | Leu | Arg | His | Thr | Pro | Glu | Leu | Pro | |
| | | 1425 | | | 1430 | | | | 1435 | | | | | | 1440 | |
| ctg | gcc | ccg | cgg | ccg | ctc | aag | gag | ggc | tcc | atc | acg | cag | ggc | acc | ccg | 4369 |
| Leu | Ala | Pro | Arg | Pro | Leu | Lys | Glu | Gly | Ser | Ile | Thr | Gln | Gly | Thr | Pro | |
| | | | 1445 | | | | | | 1450 | | | | | 1455 | | |
| ctc | aag | tac | gac | acc | ggc | gcg | tcc | acc | act | ggc | tcc | aaa | aag | cac | gac | 4417 |
| Leu | Lys | Tyr | Asp | Thr | Gly | Ala | Ser | Thr | Thr | Gly | Ser | Lys | Lys | His | Asp | |
| | | | 1460 | | | | | 1465 | | | | | 1470 | | | |
| gta | cgc | tcc | ctc | atc | ggc | agc | ccc | ggc | cgg | acg | ttc | cca | ccc | gtg | cac | 4465 |
| Val | Arg | Ser | Leu | Ile | Gly | Ser | Pro | Gly | Arg | Thr | Phe | Pro | Pro | Val | His | |
| | | 1475 | | | | | 1480 | | | | | 1485 | | | | |
| ccg | ctg | gat | gtg | atg | gcc | gac | gcc | cgg | gca | ctg | gaa | cgt | ggc | tgc | tac | 4513 |
| Pro | Leu | Asp | Val | Met | Ala | Asp | Ala | Arg | Ala | Leu | Glu | Arg | Ala | Cys | Tyr | |
| | | 1490 | | | | 1495 | | | | | 1500 | | | | | |
| gag | gag | agc | ctg | aag | agc | cgg | cca | ggg | acc | gcc | agc | agc | tgc | ggg | ggc | 4561 |
| Glu | Glu | Ser | Leu | Lys | Ser | Arg | Pro | Gly | Thr | Ala | Ser | Ser | Ser | Gly | Gly | |
| | | 1505 | | | | 1510 | | | | 1515 | | | | | 1520 | |
| tcc | att | gcg | cgc | ggc | gcc | ccg | gtc | att | gtg | cct | gag | ctg | ggt | aag | ccg | 4609 |
| Ser | Ile | Ala | Arg | Gly | Ala | Pro | Val | Ile | Val | Pro | Glu | Leu | Gly | Lys | Pro | |
| | | | 1525 | | | | | 1530 | | | | | | 1535 | | |
| cgg | cag | agc | ccc | ctg | acc | tat | gag | gac | cac | ggg | gca | ccc | ttt | gcc | ggc | 4657 |
| Arg | Gln | Ser | Pro | Leu | Thr | Tyr | Glu | Asp | His | Gly | Ala | Pro | Phe | Ala | Gly | |
| | | | 1540 | | | | | 1545 | | | | | 1550 | | | |
| cac | ctc | cca | cga | ggt | tcg | ccc | gtg | acc | atg | cgg | gag | ccc | acg | ccg | cgc | 4705 |
| His | Leu | Pro | Arg | Gly | Ser | Pro | Val | Thr | Met | Arg | Glu | Pro | Thr | Pro | Arg | |
| | | 1555 | | | | | 1560 | | | | | 1565 | | | | |
| ctg | cag | gag | ggc | agc | ctt | tcg | tcc | agc | aag | gca | tcc | cag | gac | cga | aag | 4753 |
| Leu | Gln | Glu | Gly | Ser | Leu | Ser | Ser | Ser | Lys | Ala | Ser | Gln | Asp | Arg | Lys | |
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| | |
|---|------|
| ctg acg tcg acg cct cgt gag atc gcc aag tcc ccg cac agc acc gtg | 4801 |
| Leu Thr Ser Thr Pro Arg Glu Ile Ala Lys Ser Pro His Ser Thr Val | |
| 1585 1590 1595 1600 | |
| ccc gag cac cac cca cac ccc atc tcg ccc tat gag cac ctg ctt cgg | 4849 |
| Pro Glu His His Pro His Pro Ile Ser Pro Tyr Glu His Leu Leu Arg | |
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| ggc gtg agt ggc gtg gac ctg tat cgc agc cac atc ccc ctg gcc ttc | 4897 |
| Gly Val Ser Gly Val Asp Leu Tyr Arg Ser His Ile Pro Leu Ala Phe | |
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| gac ccc acc tcc ata ccc cgc ggc atc cct ctg gac gca gcc gct gcc | 4945 |
| Asp Pro Thr Ser Ile Pro Arg Gly Ile Pro Leu Asp Ala Ala Ala Ala | |
| 1635 1640 1645 | |
| tac tac ctg ccc cga cac ctg gcc ccc aac ccc acc tac ccg cac ctg | 4993 |
| Tyr Tyr Leu Pro Arg His Leu Ala Pro Asn Pro Thr Tyr Pro His Leu | |
| 1650 1655 1660 | |
| tac cca ccc tac ctc atc cgc ggc tac ccc gac acg gcg gcg ctg gag | 5041 |
| Tyr Pro Pro Tyr Leu Ile Arg Gly Tyr Pro Asp Thr Ala Ala Leu Glu | |
| 1665 1670 1675 1680 | |
| aac cgg cag acc atc atc aat gac tac atc acc tcg cag cag atg cac | 5089 |
| Asn Arg Gln Thr Ile Ile Asn Asp Tyr Ile Thr Ser Gln Gln Met His | |
| 1685 1690 1695 | |
| cac aac acg gcc acc gcc atg gcc cag cga gct gat atg ctg agg ggc | 5137 |
| His Asn Thr Ala Thr Ala Met Ala Gln Arg Ala Asp Met Leu Arg Gly | |
| 1700 1705 1710 | |
| ctc tcg ccc cgc gag tcc tcg ctg gca ctc aac tac gct gcg ggt ccc | 5185 |
| Leu Ser Pro Arg Glu Ser Ser Leu Ala Leu Asn Tyr Ala Ala Gly Pro | |
| 1715 1720 1725 | |
| cga ggc atc atc gac ctg tcc caa gtg cca cac ctg cct gtg ctc gtg | 5233 |
| Arg Gly Ile Ile Asp Leu Ser Gln Val Pro His Leu Pro Val Leu Val | |
| 1730 1735 1740 | |
| ccc ccg aca cca ggc acc cca gcc acc gcc atg gac cgc ctt gcc tac | 5281 |
| Pro Pro Thr Pro Gly Thr Pro Ala Thr Ala Met Asp Arg Leu Ala Tyr | |
| 1745 1750 1755 1760 | |
| ctc ccc acc gcg ccc cag ccc ttc agc agc cgc cac agc agc tcc cca | 5329 |
| Leu Pro Thr Ala Pro Gln Pro Phe Ser Ser Arg His Ser Ser Ser Pro | |
| 1765 1770 1775 | |
| ctc tcc cca gga ggt cca aca cac ttg aca aaa cca acc acc acg tcc | 5377 |
| Leu Ser Pro Gly Gly Pro Thr His Leu Thr Lys Pro Thr Thr Ser | |
| 1780 1785 1790 | |
| tcg tcc gag cgg gag cga gac cgg gat cga gag cgg gac cgg gat cgg | 5425 |
| Ser Ser Glu Arg Glu Arg Asp Arg Asp Arg Glu Arg Asp Arg Arg | |
| 1795 1800 1805 | |
| gag cgg gaa aag tcc atc ctc acg tcc acc acg acg gtg gag cac gca | 5473 |
| Glu Arg Glu Lys Ser Ile Leu Thr Ser Thr Thr Thr Val Glu His Ala | |
| 1810 1815 1820 | |
| ccc atc tgg aga cct ggt aca gag cag agc agc ggc agc agc ggc agc | 5521 |
| Pro Ile Trp Arg Pro Gly Thr Glu Gln Ser Ser Gly Ser Ser Gly Ser | |
| 1825 1830 1835 1840 | |
| agc ggc ggg ggt ggg ggc agc agc agc cgc ccc gcc tcc cac tcc cat | 5569 |
| Ser Gly Gly Gly Gly Gly Ser Ser Ser Arg Pro Ala Ser His Ser His | |
| 1845 1850 1855 | |
| gcc cac cag cac tcg ccc atc tcc cct cgg acc cag gat gcc ctc cag | 5617 |
| Ala His Gln His Ser Pro Ile Ser Pro Arg Thr Gln Asp Ala Leu Gln | |
| 1860 1865 1870 | |
| cag aga ccc agt gtg ctt cac aac aca ggc atg aag ggt atc atc acc | 5665 |
| Gln Arg Pro Ser Val Leu His Asn Thr Gly Met Lys Gly Ile Ile Thr | |
| 1875 1880 1885 | |
| gct gtg gag ccc agc aag ccc acg gtc ctg agg tcc acc tcc acc tcc | 5713 |
| Ala Val Glu Pro Ser Lys Pro Thr Val Leu Arg Ser Thr Ser Thr Ser | |
| 1890 1895 1900 | |
| tca ccc gtt cgc cca gct gcc aca ttc cca cct gcc acc cac tgc cca | 5761 |
| Ser Pro Val Arg Pro Ala Ala Thr Phe Pro Pro Ala Thr His Cys Pro | |
| 1905 1910 1915 1920 | |
| ctg ggc ggc acc ctc gat ggg gtc tac cct acc ctc atg gag ccc gtc | 5809 |
| Leu Gly Gly Thr Leu Asp Gly Val Tyr Pro Thr Leu Met Glu Pro Val | |
| 1925 1930 1935 | |
| ttg ctg ccc aag gag gcc ccc cgg gtc gcc cgg cca gag cgg ccc cga | 5857 |
| Leu Leu Pro Lys Glu Ala Pro Arg Val Ala Arg Pro Glu Arg Pro Arg | |

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|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|--|--|--|------|--|--|--|--|--|--|--|--|--|--|
| gca | gac | acc | ggc | cat | gcc | ttc | ctc | gcc | aag | ccc | cca | gcc | cgc | tcc | ggg | 5905 | | | | | | | | | | | | | | |
| Ala | Asp | Thr | Gly | His | Ala | Phe | Leu | Ala | Lys | Pro | Pro | Ala | Arg | Ser | Gly | | | | | | | | | | | | | | | |
| 1955 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ctg | gag | ccc | gcc | tcc | tcc | ccc | agc | aag | ggc | tcg | gag | ccc | cgg | ccc | cta | 5953 | | | | | | | | | | | | | | |
| Leu | Glu | Pro | Ala | Ser | Ser | Pro | Ser | Lys | Gly | Ser | Glu | Pro | Arg | Pro | Leu | | | | | | | | | | | | | | | |
| 1970 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Val | Pro | Pro | Val | Ser | Gly | His | Ala | Thr | Ile | Ala | Arg | Thr | Pro | Ala | Lys | | | | | | | | | | | | | | | |
| 1985 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| aac | ctc | gca | cct | cac | cac | gcc | agc | ccg | gac | ccg | ccg | gcg | cca | cct | gcc | 6049 | | | | | | | | | | | | | | |
| Asn | Leu | Ala | Pro | His | His | Ala | Ser | Pro | Asp | Pro | Pro | Ala | Pro | Pro | Ala | | | | | | | | | | | | | | | |
| 2005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| tcg | gcc | tcg | gac | ccg | cac | cgg | gaa | aag | act | caa | agt | aaa | ccc | ttt | tcc | 6097 | | | | | | | | | | | | | | |
| Ser | Ala | Ser | Asp | Pro | His | Arg | Glu | Lys | Thr | Gln | Ser | Lys | Pro | Phe | Ser | | | | | | | | | | | | | | | |
| 2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| atc | cag | gaa | ctg | gaa | ctc | cgt | tct | ctg | ggt | tac | cac | ggc | agc | agc | tac | 6145 | | | | | | | | | | | | | | |
| Ile | Gln | Glu | Leu | Glu | Leu | Arg | Ser | Leu | Gly | Tyr | His | Gly | Ser | Ser | Tyr | | | | | | | | | | | | | | | |
| 2035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Ser | Pro | Glu | Gly | Val | Glu | Pro | Val | Ser | Pro | Val | Ser | Ser | Pro | Ser | Leu | | | | | | | | | | | | | | | |
| 2050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Thr | His | Asp | Lys | Gly | Leu | Pro | Lys | His | Leu | Glu | Glu | Leu | Asp | Lys | Ser | | | | | | | | | | | | | | | |
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| cac | ctg | gag | ggg | gag | ctg | cgg | ccc | aag | cag | cca | ggc | ccc | gtg | aag | ctt | 6289 | | | | | | | | | | | | | | |
| His | Leu | Glu | Gly | Glu | Leu | Arg | Pro | Lys | Gln | Pro | Gly | Pro | Val | Lys | Leu | | | | | | | | | | | | | | | |
| 2085 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Gly | Gly | Glu | Ala | Ala | His | Leu | Pro | His | Leu | Arg | Pro | Leu | Pro | Glu | Ser | | | | | | | | | | | | | | | |
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| Gln | Pro | Ser | Ser | Ser | Pro | Leu | Gln | Thr | Ala | Pro | Gly | Val | Lys | Gly | | | | | | | | | | | | | | | | |
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| His | Gln | Arg | Val | Val | Thr | Leu | Ala | Gln | His | Ile | Ser | Glu | Val | Ile | Thr | | | | | | | | | | | | | | | |
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| Met | Gly | Ser | Lys | Ser | Pro | Gly | Asn | Thr | Ser | Gln | Pro | Pro | Ala | Phe | Phe | | | | | | | | | | | | | | | |
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| Glu | Ile | Asn | Lys | Lys | Leu | Asn | Thr | His | Asn | Arg | Asn | Glu | Pro | Glu | Tyr | | | | | | | | | | | | | | | |
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Ser Thr Asn Met Gly Leu Glu Ala Ile Ile Arg Lys Ala Leu Met Gly
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aaa tat gac cag tgg gaa gag tcc ccg ccg ctc agc gcc aat gct ttt 7105
Lys Tyr Asp Gln Trp Glu Glu Ser Pro Pro Leu Ser Ala Asn Ala Phe
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Pro Ala Pro Gly Leu Ala Ser Gly Asp Arg Pro Pro Ser Val Ser Ser
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Val His Ser Glu Gly Asp Cys Asn Arg Arg Thr Pro Leu Thr Asn Arg
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Asn Pro Leu Ile Met Arg Leu Gln Ala Gly Val Met Ala Ser Pro Pro
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Pro Pro Gly Leu Pro Ala Gly Ser Gly Pro Leu Ala Gly Pro His His
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Ala Trp Asp Glu Glu Pro Lys Pro Leu Leu Cys Ser Gln Tyr Glu Thr
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| tcaggactgg | ggcctgggga | aggaagggcc | acagacagc | cctcagcccc | acatcttgtg | 186720 |
| tcttcagggg | acagctctgg | gctcagttcc | ggcggaagc | atcaccaaag | gcattcccag | 186780 |
| cacacgggtg | ccctcgga | gcgccatcac | ataccgcggc | tccatcaccc | acgtaggtgt | 186840 |
| cctgggggtg | ggcaggaagg | acggttgagg | ccagcacggg | gccagcccat | cttataaccc | 186900 |
| ctcattgtca | ccaaaccatt | agcctcagcc | gatgggggtg | tgactggggg | acagcagttc | 186960 |
| actccatgaa | ctttcatcta | gtctgcatgg | aatcaggcac | tgggattgcc | aagcacagct | 187020 |
| caaaactctg | ccttcaggga | gctgccatgt | agtggaaagg | aacagaccag | ggtaaaataag | 187080 |
| taggctgggt | aaaaccgagc | aggcaggcag | aatgtgagcg | taccgcggct | gagaatgcct | 187140 |
| ggccacggac | attgcttaga | caggtgagga | aggtgacatg | tcagctgtgg | ccagaagaaa | 187200 |
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| tgtgcaaaga | cagagcatga | gagggttcct | gaatcgtgcc | aggactgggt | ccccagcctt | 187320 |
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| gggcaacaag | atgggtccaca | gggaggtggt | tttactcag | gcagcgtcaa | atccccacc | 187500 |
| agaggagcca | tttacacttt | gcccttctct | gaaatctgca | ggttttaaaa | atctgagctt | 187560 |
| tcaaaggcag | ctgtgctgag | tgggaagggc | aagtgccttg | gacaaaagtc | aggctgaggg | 187620 |
| ccctcgggtg | ccagctccac | cacctactca | gacaggcagc | ggcctgcctt | gactccgttt | 187680 |
| ccctttgttc | aacagtattc | ctgggagagt | cattctcctg | aagtcgtagg | gacctttgaa | 187740 |
| gttcccaggc | atccacctgc | tctgggttcc | tgagtggcca | tgaccgcgc | ccttctctga | 187800 |
| acctcccagt | tacacacatc | tctttgattg | cttttggcag | acagccagct | gccccaaacat | 187860 |
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| cgtgtggcct | gcacgcacag | agccgtttat | taactgagta | ggtgccatag | gcagggacca | 187980 |
| cgtgggtccc | agctggcaag | ggaggtcaag | gaagtcccag | ctccctgac | ctccagggac | 188040 |
| ttcctgccc | tcttgggagt | agagttcatt | ggggccaaga | gcaagaggct | acaggctcat | 188100 |
| ctcctggaag | cagacgttat | gcaaacagaa | gcttcctgt | taatgggagt | ttgtccagt | 188160 |
| tattctccca | agagcagggg | ccaccggctg | gatttctgtt | ctctgtccat | gtccctgaag | 188220 |
| atggcacctc | taaaatacta | tagctcaaaa | acatcaagct | ggacacggtg | gctcttgcc | 188280 |
| gtcaaccag | cattttggga | ggccaagggtg | ggaggatagc | ttgagcccag | gagtttgaga | 188340 |
| ccagcctgga | caaaaagagg | cctgtctcta | cagaaaattt | aaaaattggc | tgggcatggt | 188400 |
| ggcacatacc | tgtagtctca | gctacttggtg | actgggaggc | aggaagatca | cttgagccca | 188460 |
| ggagtttgag | gctgcagtga | actatgacag | tgttctgcac | tccagcctgg | gcaatacagc | 188520 |
| aagaccctt | ctcaaaaaaa | aaaaatcaga | tgccctcagt | tcaccatgga | gagccccct | 188580 |
| ttttaaatca | tttattgtgg | tggtcagtaa | gccactgatt | tctgcagtac | aaaccagtt | 188640 |
| ctgacatgga | ccatctgatg | ttagggtctg | atacagaaag | gggtgcactt | gtgttagctg | 188700 |
| cctcttggtg | ggcttttccc | gccaggtatg | tgcaggaatc | ctgtgctttc | ctgatgggag | 188760 |
| aggtggctgc | cccgagctgt | cacctgactc | agcacctatt | gtgccacact | gttagtgtac | 188820 |
| aggtgtctta | aagcacagca | gggagatgct | gctcagagta | tttgctttgg | gaagtttggg | 188880 |
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| gtgaactccc | cggggtacca | ggtgtctgcc | tctgccaggg | gatgtcccca | gccaagcaag | 189000 |
| tccagccaga | gactcagagc | tcactggtcc | aggtcttggtg | atatagtagg | acctttacc | 189060 |
| ttgaatctgc | tcctggaaac | ctagaaaagag | aagagggata | ttgagatttg | gggacccgtc | 189120 |
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| aaggcaggat | cctgccccac | gtggccatct | cctctctgct | tgaacacatc | ctccaacggg | 189360 |
| aagctcattc | gctatatggc | agtggttctc | aattggggga | aattgtgcct | ccaactctct | 189420 |
| agggacattt | tcgattgtcc | taacttggtg | ggggacacac | tggggaggcg | tgtactcctg | 189480 |
| gcttctagtg | ctttgaagcc | agggatgctg | ttaacagccc | acagtgcaca | ggacagcccc | 189540 |
| acagcaaaga | aggggtccagc | tccagctgtc | aggagggccg | aggtggaaaa | cctgggttag | 189600 |
| aactaaaatt | tccggtgtgc | tgccctgacg | tgagtccttg | tcctgggttt | aggaaaacca | 189660 |
| agtgcattgac | gtggtcacgg | gtacagcaca | ggagcagaaa | ccccagcgtc | cccgcagtt | 189720 |
| accgttttgc | gtaactgaat | gtcaaggctc | tgagtagacc | ccacgcagtg | gtggggacac | 189780 |
| agactccagg | accagaatgc | ctgggttcaa | gtccccgcct | gccccctatt | agccaggtag | 189840 |
| ccccgggtaa | agtcaactgtg | cctccctgtg | cctcggtttc | cccattctgaa | acaggcataa | 189900 |
| tcaatagggt | tgtcttaggg | ttgtttcgag | gattaaatga | gcaaattccat | agagagcacc | 189960 |
| cagaacagcg | tccactcatg | ggaagcactt | gacaagggat | cttcattctt | caggttcctc | 190020 |
| atagggtttt | gttccatgca | aactcttacc | tatttgagac | agtgtgtgtg | tggacacgcg | 190080 |
| tgtgcatcgg | tgggcacatg | ggcttttaag | cacgtctttg | cctgcatttg | agttgagagg | 190140 |
| ggtcctgggc | tgcagctccc | tgggcgctca | cccccttgca | cctgcagggc | acgccagctg | 190200 |
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| accgcggccg | ggaggacagc | ctgcccagg | gccacgtcat | ctacgaaggc | aagaaggggc | 190320 |
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| tgtccttggc | ccactgaggt | agcttcacag | ggaggcaggg | ctggattgac | atcagaaagc | 190440 |
| acaatctgat | aggtgggtgac | ctccttatcc | ctgcaggat | gcaagccagc | agcagggaag | 190500 |
| cgttggcctt | agctgcctcc | cacctctgcc | cagttcttta | cagtttagaa | aacaaactca | 190560 |
| tggccaacct | ttttagaagc | ataggaggga | aactgaggcc | cggaaacagaa | gcccagagctc | 190620 |
| acgccgccag | gcctccagca | ccgtactgac | aaaccacgca | ctctctcatt | ggccatgaaa | 190680 |
| gagggccatg | ccagagtgc | cctgcgccca | ctgtgtccca | ggctcttgct | gcggagcccc | 190740 |
| catcctctcc | ctctctaggc | tctgggttcc | agaacgagga | gaccttgcca | ggaaggagtt | 190800 |
| aagggaatcg | agtgccggga | aagagaattt | cctggcagcc | tagggcacc | aggggtgtgg | 190860 |
| agatgaaagc | tgctaattgg | cgctctctc | agcactgcag | ctgcgaggcc | cggaattgcc | 190920 |
| tctcctccat | ccacttccgc | ctgtgcccgc | agccccctcc | ccaggcctgg | gaggtggagg | 190980 |
| tggcacctg | tggcttagga | acataatgca | ctccctgtgt | ccacagagat | agccttgagg | 191040 |
| acaggcctgc | agctgtgtct | tgggtgccag | ctcatgccct | ggtgcccttg | gaccgagtg | 191100 |
| cctgggggtg | gcgggaagcc | tgggaagggc | tggtgggtgg | gttagtcaag | agcttgtctt | 191160 |
| gagaggtcac | tgggtagagt | cccaccttgg | gacccagac | cagtgcctga | gcctttatag | 191220 |
| gccttcagcg | tatcgtcttc | atcatgggtt | tcagtcgggg | cctttaaact | ctcgtctgct | 191280 |
| ccctggggcca | ggtaggcagt | gcaggcagcg | gcaggtgtga | gactgtaggg | agtggggagg | 191340 |
| actgtaggga | atggggagga | ctgtgggtgc | tgctcacgcc | gtccactccc | ctgcggccac | 191400 |
| cggtcagcca | ggtttctcat | ctccgttttt | atctgaaatc | tcccgatgtt | taaacatcgg | 191460 |
| cgattaattt | ggaacgtttt | ctgaacagca | acctagtacc | ctcctgtttg | caacccttgg | 191520 |
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| ttgctcattc | cctctgaggg | gtggggcggg | ggctcccggg | gctcatttct | gatagctctg | 191640 |
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| gggggccacc | tccgtctgtt | cacctctctg | cctgtccggg | gagcagtgag | ccggggcccat | 191760 |
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| tctgggtgtg | acacgtgtat | acatacaaa | ccgtgtactg | cctgcaccct | ggtacatgtg | 191940 |
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| cctgcacaca | caagacccgt | gccagtgcac | atgcgtgctc | ctgcctgcc | cacgtccaca | 192060 |
| cactgctgat | gtatcgggtg | acacgcgtgc | tcctgcctgc | ccgcacctcc | actctgctgt | 192120 |
| atcgggtgcac | gcgtgctgct | gcctgccaca | catccacact | ctgctgctga | tgtatcgggtg | 192180 |
| cacgtgtgct | cctgcctgcc | acacatccac | acactgctga | tgcgtccttg | ctcacgtgca | 192240 |
| tgtgtgtgca | cttgttcacg | ccccatgtcg | gcacccgtgg | gtgtggacac | agactcacgt | 192300 |
| gctcatgtgg | tcacaggcac | acccttgctt | gcagacagag | caccctggag | ggctagggta | 192360 |
| cagggtgcag | gcagcgtgcc | ctgcatctcc | caccgtgcaa | ccccctggaa | aagctcctgg | 192420 |
| gtcctgctgg | caggccccc | gggcctgcag | gctgccagct | ccctctggag | gcctcggctg | 192480 |
| tgaggctttg | tgacggggcc | agcatggaag | cactgctggc | tcctgcctac | cggtcttgcc | 192540 |
| tgtcctgcct | gcccaccgtg | gtcctgggcc | ctgcccagc | tcctcaccga | gtgctttgtg | 192600 |
| tggtttccag | gtggcatgtc | tgtgacccag | tgtccaagg | aggacggcag | aagcagctca | 192660 |
| ggaccccccc | atgagacggc | cgccccaaag | cgacctaag | acatgatgga | gggccgcgtg | 192720 |
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| ggtgccccct | ggtgggcggt | ggggggatgg | ctgaccccg | tttacagatg | gggaaaccga | 192840 |
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| actccaccat | catcgtgggg | atgaccactg | gcggctgtaa | acactgacct | ctgtcactgc | 192960 |
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| gggcccgtgc | atcccgcggg | agcgacacag | ccccaccac | ctcaaagagc | agcaccacat | 193080 |
| ccgcgggtcc | atcacacaag | gtactgccct | gttccctgct | ccctcgttgc | ccccaacggg | 193140 |
| tgtacagtca | cgcagggcgc | gggagggaga | gacacagcca | gagtgtgggtg | ggaactcagg | 193200 |
| acaagtatgc | agaaaggcct | gcagcacaca | tgtacatgat | cagtacgtga | gctacggagc | 193260 |
| aagggtgtct | cttactttat | tcaaaaacaaa | aacaaaaagc | aaaataccac | cgatcacccc | 193320 |
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| aggggtgcga | gggcagtaag | taacaagtgt | gccatctcag | ggttagcaaa | gccctctgtc | 195840 |
| tccctgcctc | tggaggcatc | agatgtcact | ttcatcttat | agatgacaaa | ctttttgagc | 195900 |
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| ccctctgccc | cagggcaccc | cgctcaagta | cgacaccggc | gcgtccacca | ctggctccaa | 196020 |
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| tgtgcctgag | ctgggtaagc | cgccggcagag | ccccctgacc | tatgaggacc | acgggggcacc | 196260 |
| ctttgccggc | cacctcccac | gaggttcgcc | cgtgaccacg | cgggagccca | cgccgcgcct | 196320 |
| gcaggagggt | gagtggggtg | tgcatgggcg | tgagtggggt | gggcgcctgt | ctggagaagc | 196380 |
| tgtgcctccc | catccaccat | tagcttagtt | tgacactggg | atatacctcg | caccgccttt | 196440 |
| ccaccacatc | caaaccacct | gcaggcccg | gggctctgcc | tccgattcca | aacctgtcc | 196500 |
| aactccttgc | cacctcccag | accaccgtgg | tgtctcacct | agcttcccc | acgccccctc | 196560 |
| ctcttcctgc | tgtaatccac | tctgcaaaca | gctaccggga | tactttctaa | aaatgcaaat | 196620 |
| catattattc | cacttcccctg | cttccatcct | tctagcaact | tcacacattt | tgctatggcc | 196680 |
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| ccccagcccc | agccccctgg | ccctctttct | ctttgttccc | tggccatgct | tagctcggtc | 196800 |
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| atccttgggg | aattattctaa | ccagaccctcc | tatctccagt | tcatatcaca | tgctgtgaca | 196980 |
| ttttaaaatt | gtcttccggc | caggcatggt | ggctcacacc | tgtaatccca | gcagtttggg | 197040 |
| aggtcaaggc | aggcagatca | cctgagggtca | ggagttcaag | accagcctgg | tcaacatggt | 197100 |
| gaaaccctgt | ctctactaaa | aatacaaaaa | aataaccggg | tgtggtggta | cgcacctgta | 197160 |
| ttcccagcta | ctcgggaggg | tgaggcagga | gaatcacttg | agcctgggag | gcagaggtta | 197220 |
| cagtgaacgg | agatcgtgcc | attgcactcc | agcctgggca | acaagagtga | aactcttatc | 197280 |
| tcaaaaaaaa | aaaaaaatga | aagaaaattt | tcttctgagc | gtgtttcact | ctgtaattct | 197340 |
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| acc | cac | tgc | cca | ctg | ggc | ggc | acc | ctc | gat | ggg | gtc | tac | cct | acc | ctc | 1145 |
| Thr 215 | His 215 | Cys 215 | Pro 215 | Leu 215 | Gly 220 | Gly 220 | Thr 215 | Leu 215 | Asp 225 | Gly 225 | Val 215 | Tyr 215 | Pro 215 | Thr 215 | Leu 230 | |
| atg | gag | ccc | gtc | ttg | ctg | ccc | aag | gag | gcc | ccc | cgg | gtc | gcc | cgg | cca | 1193 |
| Met | Glu | Pro | Val | Leu 235 | Leu 235 | Pro 235 | Lys 235 | Glu 240 | Ala 240 | Pro 240 | Arg 240 | Val 240 | Ala 245 | Arg 245 | Pro 245 | |
| gag | cgg | ccc | cga | gca | gac | acc | ggc | cat | gcc | ttc | ctc | gcc | aag | ccc | cca | 1241 |
| Glu | Arg | Pro | Arg 250 | Ala 250 | Asp 250 | Thr 250 | Gly 255 | His 255 | Ala 255 | Phe 255 | Leu 255 | Ala 260 | Lys 260 | Pro 260 | Pro 260 | |
| gcc | cgc | tcc | ggg | ctg | gag | ccc | gcc | tcc | tcc | ccc | agc | aag | ggc | tcg | gag | 1289 |
| Ala | Arg | Ser 265 | Gly 265 | Leu 265 | Glu 265 | Pro 265 | Ala 270 | Ser 270 | Ser 270 | Pro 270 | Ser 270 | Lys 275 | Gly 275 | Ser 275 | Glu 275 | |
| ccc | cgg | ccc | cta | gtg | cct | cct | gtc | tct | ggc | cac | gcc | acc | atc | gcc | cgc | 1337 |
| Pro | Arg | Pro | Leu 280 | Val 280 | Pro 285 | Pro 285 | Val 285 | Ser 285 | Gly 285 | His 285 | Ala 290 | Thr 290 | Ile 290 | Ala 290 | Arg 290 | |
| acc | cct | gcg | aag | aac | ctc | gca | cct | cac | cac | gcc | agc | ccg | gac | ccg | ccg | 1385 |
| Thr 295 | Pro 295 | Ala 295 | Lys 295 | Asn 300 | Ala 300 | Pro 300 | His 300 | His 305 | His 305 | Ala 305 | Ser 305 | Pro 305 | Asp 305 | Pro 310 | Pro 310 | |
| gcg | cca | cct | gcc | tcg | gcc | tcg | gac | ccg | cac | cgg | gaa | aag | act | caa | agt | 1433 |
| Ala | Pro | Pro | Ala 315 | Ser 315 | Ala 315 | Ser 315 | Asp 315 | Pro 320 | His 320 | Arg 320 | Glu 320 | Lys 320 | Thr 325 | Gln 325 | Ser 325 | |
| aaa | ccc | ttt | tcc | atc | cag | gaa | ctg | gaa | ctc | cgt | tct | ctg | ggt | tac | cac | 1481 |
| Lys | Pro | Phe 330 | Ser 330 | Ile 330 | Gln 330 | Glu 330 | Leu 335 | Glu 335 | Leu 335 | Arg 335 | Ser 335 | Leu 335 | Gly 340 | Tyr 340 | His 340 | |
| ggc | agc | agc | tac | agc | ccc | gaa | ggg | gtg | gag | ccc | gtc | agc | cct | gtg | agc | 1529 |
| Gly | Ser 345 | Ser 345 | Tyr 345 | Ser 345 | Pro 345 | Glu 345 | Gly 350 | Val 350 | Glu 350 | Pro 350 | Val 350 | Ser 355 | Pro 355 | Val 355 | Ser 355 | |
| tca | ccc | agt | ctg | acc | cac | gac | aag | ggg | ctc | ccc | aag | cac | ctg | gaa | gag | 1577 |
| Ser | Pro 360 | Ser 360 | Leu 360 | Thr 360 | His 365 | Asp 365 | Lys 365 | Gly 365 | Leu 370 | Pro 370 | Lys 370 | His 370 | Leu 370 | Glu 370 | Glu 370 | |
| ctc | gac | aag | agc | cac | ctg | gag | ggg | gag | ctg | cgg | ccc | aag | cag | cca | ggc | 1625 |
| Leu | Asp 375 | Lys 375 | Ser 375 | His 375 | Leu 380 | Glu 380 | Gly 380 | Glu 380 | Leu 385 | Arg 385 | Pro 385 | Lys 385 | Gln 385 | Pro 385 | Gly 390 | |
| ccc | gtg | aag | ctt | ggc | ggg | gag | gcc | gcc | cac | ctc | cca | cac | ctg | cgg | ccg | 1673 |
| Pro | Val 395 | Lys 395 | Leu 395 | Gly 395 | Gly 395 | Glu 395 | Ala 395 | Ala 400 | His 400 | Leu 400 | Pro 400 | His 400 | Leu 405 | Arg 405 | Pro 405 | |
| ctg | cct | gag | agc | cag | ccc | tcg | tcc | agc | ccg | ctg | ctc | cag | acc | gcc | cca | 1721 |
| Leu | Pro 410 | Glu 410 | Ser 410 | Gln 410 | Pro 410 | Ser 410 | Ser 415 | Ser 415 | Pro 415 | Leu 415 | Leu 415 | Gln 415 | Thr 420 | Ala 420 | Pro 420 | |
| ggg | gtc | aaa | ggg | cac | cag | cgg | gtg | gtc | acc | ctg | gcc | cag | cac | atc | agt | 1769 |
| Gly | Val 425 | Lys 425 | Gly 425 | His 425 | Gln 425 | Arg 425 | Val 430 | Val 430 | Thr 430 | Leu 430 | Ala 430 | Gln 435 | His 435 | Ile 435 | Ser 435 | |
| gag | gtc | atc | aca | cag | gac | tac | acc | cgg | cac | cac | cca | cag | cag | ctc | agc | 1817 |
| Glu | Val 440 | Ile 440 | Thr 440 | Gln 440 | Asp 445 | Thr 445 | Arg 445 | Arg 445 | His 445 | His 445 | Pro 445 | Gln 445 | Gln 445 | Leu 445 | Ser 445 | |
| gca | ccc | ctg | ccc | gcc | ccc | ctc | tac | tcc | ttc | cct | ggg | gcc | agc | tcg | ccc | 1865 |
| Ala | Pro 455 | Leu 455 | Pro 455 | Ala 455 | Pro 460 | Leu 460 | Tyr 460 | Ser 460 | Phe 460 | Pro 465 | Gly 465 | Ala 465 | Ser 465 | Cys 465 | Pro 470 | |
| gtc | ctg | gac | ctc | cgc | cca | ccc | agt | gac | ctc | tac | ctc | ccg | ccc | ccg | Pro | 1913 |
| Val | Leu 475 | Asp 475 | Leu 475 | Arg 475 | Arg 475 | Pro 475 | Pro 475 | Ser 475 | Asp 480 | Leu 480 | Tyr 480 | Leu 480 | Pro 480 | Pro 485 | Pro 485 | |
| gac | cat | ggg | gcc | ccg | gcc | cgt | ggc | tcc | ccc | cac | agc | gaa | ggg | ggc | aag | 1961 |
| Asp | His 490 | Gly 490 | Ala 490 | Pro 490 | Ala 490 | Arg 490 | Gly 495 | Ser 495 | Pro 495 | His 495 | Ser 495 | Glu 495 | Gly 495 | Gly 495 | Lys 495 | |
| agg | tct | cca | gag | cca | aac | aag | acg | tcg | gtc | ttg | ggg | ggg | ggg | gag | gac | 2009 |
| Arg | Ser 505 | Pro 505 | Glu 505 | Pro 505 | Asn 505 | Lys 505 | Thr 510 | Ser 510 | Val 510 | Leu 510 | Gly 510 | Gly 510 | Gly 510 | Glu 510 | Asp 510 | |
| ggg | att | gaa | cct | gtg | tcc | cca | ccg | gag | ggc | atg | acg | gag | cca | ggg | cac | 2057 |
| Gly | Ile 520 | Glu 520 | Pro 520 | Val 520 | Ser 520 | Pro 520 | Pro 525 | Glu 525 | Gly 525 | Met 525 | Thr 525 | Glu 525 | Pro 525 | Gly 525 | His 525 | |
| tcc | cgg | agt | gct | gtg | tac | ccg | ctg | ctg | tac | cgg | gat | ggg | gaa | cag | acg | 2105 |
| Ser | Arg 535 | Ser 535 | Ala 535 | Val 535 | Tyr 540 | Pro 540 | Leu 540 | Leu 540 | Tyr 540 | Arg 540 | Asp 540 | Gly 540 | Glu 540 | Gln 540 | Thr 540 | |
| gag | ccc | agc | agg | atg | ggc | tcc | aag | tct | cca | ggc | aac | acc | agc | cag | ccg | 2153 |
| Glu | Pro 555 | Ser 555 | Arg 555 | Met 555 | Gly 555 | Ser 555 | Lys 555 | Ser 555 | Pro 560 | Gly 560 | Asn 560 | Thr 560 | Ser 560 | Gln 560 | Pro 560 | |

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| Pro Ala Phe Phe Ser Lys Leu Thr Glu Ser Asn Ser Ala Met Val Lys | |
| 570 575 580 | |
| tcc aag aag caa gag atc aac aag aag ctg aac acc cac aac cgg aat | 2249 |
| Ser Lys Lys Gln Glu Ile Asn Lys Leu Asn Thr His Asn Arg Asn | |
| 585 590 595 | |
| gag cct gaa tac aat atc agc cag cct ggg acg gag atc ttc aat atg | 2297 |
| Glu Pro Glu Tyr Asn Ile Ser Gln Pro Gly Thr Glu Ile Phe Asn Met | |
| 600 605 610 | |
| ccc gcc atc acc gga aca ggc ctt atg acc tat aga agc cag gcg gtg | 2345 |
| Pro Ala Ile Thr Gly Thr Gly Leu Met Thr Tyr Arg Ser Gln Ala Val | |
| 615 620 625 630 | |
| cag gaa cat gcc agc acc aac atg ggg ctg gag gcc ata att aga aag | 2393 |
| Gln Glu His Ala Ser Thr Asn Met Gly Leu Glu Ala Ile Ile Arg Lys | |
| 635 640 645 | |
| gca ctc atg ggt ggc ggc ggg aag gcc aag gtc tct ggc aga ccc agc | 2441 |
| Ala Leu Met Gly Gly Gly Lys Ala Lys Val Ser Gly Arg Pro Ser | |
| 650 655 660 | |
| agc cga aaa gcc aag tcc ccg gcc ccg ggc ctg gca tct ggg gac cgg | 2489 |
| Ser Arg Lys Ala Lys Ser Pro Ala Pro Gly Leu Ala Ser Gly Asp Arg | |
| 665 670 675 | |
| cca ccc tct gtc tcc tca gtg cac tcg gag gga gac tgc aac cgc cgg | 2537 |
| Pro Pro Ser Val Ser Ser Ser His Ser Glu Gly Asp Cys Asn Arg Arg | |
| 680 685 690 | |
| acg ccg ctc acc aac cgc gtg tgg gag gac agg ccc tcg tcc gca ggt | 2585 |
| Thr Pro Leu Thr Asn Arg Val Trp Glu Asp Arg Pro Ser Ser Ala Gly | |
| 695 700 705 710 | |
| tcc acg cca ttc ccc tac aac ccc ctg atc atg cgg ctg cag gcg ggt | 2633 |
| Ser Thr Pro Phe Pro Tyr Asn Pro Leu Ile Met Arg Leu Gln Ala Gly | |
| 715 720 725 | |
| gtc atg gct tcc cca ccc cca ccg ggc ctc ccc gcg ggc agc ggg ccc | 2681 |
| Val Met Ala Ser Pro Pro Pro Pro Gly Leu Pro Ala Gly Ser Gly Pro | |
| 730 735 740 | |
| ctc gct ggc gcc cac cac gcc tgg gac gag gag ccc aag cca ctg ctc | 2729 |
| Leu Ala Gly Ala His His Ala Trp Asp Glu Glu Pro Lys Pro Leu Leu | |
| 745 750 755 | |
| tgc tcg cag tac gag aca ctc tcc gac agc gag tga ctcagaacag | 2775 |
| Cys Ser Gln Tyr Glu Thr Leu Ser Asp Ser Glu | |
| 760 765 | |
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| gcagggcggc tgccgactcc cccaaccaag gaaggagccc ctgagtcgcg ctgcgcctcc | 2895 |
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